

INTERNATIONAL SEARCH REPORT

Internat Application No
PCT/11 03/00363

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C23C16/46 C30B25/12 C30B25/10 C30B31/12 H05B6/02 F27B14/06 H01L21/00 C23C16/458		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 C23C C30B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) WPI Data, PAJ, EPO-Internal, IBM-TDB		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/090454 A1 (KORDINA OLLE ET AL) 11 July 2002 (2002-07-11)	1,2,8,9, 11-20
Y	paragraphs '0034!-'0039! ---	3,4
X	US 5 221 356 A (BECKER JURGEN ET AL) 22 June 1993 (1993-06-22)	1,5,6
Y	column 3, line 5 -column 4, line 20; figures 1,2 ---	7
Y	US 4 667 076 A (AMADA HARUO) 19 May 1987 (1987-05-19) cited in the application column 6, line 1 - line 19; figures 4,5 ---	3,4
Y	US 5 788 777 A (BURK JR ALBERT A) 4 August 1998 (1998-08-04) cited in the application column 4, line 65 -column 5, line 16 -----	7
<input type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *Z* document member of the same patent family		
Date of the actual completion of the international search 15 January 2004		Date of mailing of the international search report 21/01/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer EkhuIt, H

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Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 5221356	A	22-06-1993	NONE
US 4667076	A	19-05-1987	JP 1937434 C 09-06-1995 JP 6069027 B 31-08-1994 JP 59152618 A 31-08-1984 DE 3402630 A1 23-08-1984 FR 2541510 A1 24-08-1984 GB 2136258 A ,B 12-09-1984 HK 288 A 15-01-1988 IT 1173301 B 24-06-1987 SG 87887 G 20-05-1988 US 4593168 A 03-06-1986
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